



## Polyphenolic content and Pharmacological Potential of French BFA Propolis extracts

Submitted by Séverine Boisard on Thu, 07/09/2015 - 18:48

Titre	Polyphenolic content and Pharmacological Potential of French BFA Propolis extracts
Type de publication	Communication
Type	Communication sans actes dans un congrès
Année	2012
Langue	Anglais
Date du colloque	22-25/10/2012
Titre du colloque	Apimondia Apimedita-Apiquality International Forum
Auteur	Boisard, Séverine [1], Le Ray, Anne-Marie [2], Gatto, Julia [3], Aumond, Marie-Christine [4], Landreau, Anne [5], Kempf, Marie [6], Péruchès, Isabelle [7], Flurin, Catherine [8], Richomme, Pascal [9]
Pays	Chine
Ville	Zhenjiang
Mots-clés	biological assays [10], Polyphenols [11], propolis [12]
Résumé en anglais	Propolis, or bee glue, is a natural resinous hive product collected by honeybees from buds and exudates of various trees and plants. Mixed with beeswax and salivary enzymes, it is employed to fill cracks and embalm dead invaders in the hive. Propolis has been used in folk medicine since ancient times due to its pharmacological potential associated with antioxidant, antifungal, antibacterial as well as antitumoral properties. A batch of various French propolis extracts, supplied by "Ballot-Flurin Apiculteurs" (BFA), a company located in the South-West of France and specialized in apitherapy products, was fractionated and analysed by HPLC/MS. Its qualitative chemical composition highlights the presence of polyphenols such as hydroxycinnamic acid derivatives and flavonoids. Total polyphenol content and antioxidant activities were evaluated on six BFA propolis extracts, using respectively Folin-Ciocalteu, DPPH and ORAC assays. Preliminary antifungal ( <i>Candida albicans</i> ) and antibacterial ( <i>Staphylococcus aureus</i> ) evaluations will also be given.
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